ABSTRACT:

        Apparatuses are connected in a tree structure, wherein the branches correspond to bus connections between apparatuses. The apparatus at the root node the tree ultimately arbitrates access to the bus connections. The tree structure is dynamically reorganized by selecting a new root node. Selection of the new root node involves predicting a volume of
5   messages to be sent by each of the apparatuses (preferably by counting the number of messages originating from each apparatus during an observation period). An expected heavy sender apparatus is selected as new root node. Thus, the heavy sender is able to get faster access to arbitration and network resources, reducing jitter in the time points at which messages can be sent by the heavy sender.

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Fig. 1